

MacMillan Ring Free Oil

Norphlet, Union County, Arkansas

EPA CERCLA ID No: ARD008049207

SSID No: 063T

County: Union Arkansas

US Congressional District: 1



Site Description

Location: The site is located in Norphlet, near El Dorado in Union County, Arkansas. The physical address is 600 Macmillan Road (State Highway 335), Norphlet, Arkansas, 71759. The geographical location is 33°18' 30.096" north latitude and 92° 39' 24.769" west longitude.

Setting: MacMillan Ring-Free Oil Refinery is situated in a rural area at the end of MacMillan Road, off State Highway 335, the approximate area of the site is 100 acres. It is bordered by a residential subdivision and the Norphlet Public School on the west, Hayes Creek on the north and east, and Massey Creek and bottomlands associated with the creek to the southwest. Norphlet has an estimated 788 residents. Approximately 16 persons reside within a 1-mile radius and 172 persons reside within a 2-mile radius of the site.

Site History

MacMillan Ring-Free Oil operated as a crude oil facility from 1929 until 1987. The facility was inactive from 1987 until 1989, when the property was sold to Nor-Ark Industrial Corp (Nor-Ark) who used the on-site storage tanks for asphalt products until March of 1991, when the company filed for bankruptcy. The facility was refurbished by Norphlet Chemical Company, Inc. as a chemical manufacturing plant in early 2006 to produce tetrafluoroethane (Freon 134A) refrigerant used in automobiles. The plant never operated as intended and failed to produce the product. In 2007 the facility was abandoned and has remained vacant since 2007.

When in operation, the daily refining capacity was approximately 4,500 barrels per day. Records indicate a history of regulatory environmental issues including water discharge, air emissions, and hazardous waste pond closures. The bankruptcy of MacMillan Oil in 1987 led to a series of EPA Superfund removal actions for the waste oil pits and oily soils along Massey Creek. During removal operations conducted in 1992, approximately 31,500 gallons of free-floating oil materials were recovered from sand pits. During subsequent removal operations conducted in 1993, 9,600 gallons of composite waste flammable corrosive liquids and 50,080 gallons of waste oil were transported off-site. In addition to the EPA Superfund removal actions, an ADEQ

Emergency Order resulted in the removal of approximately 171 cubic yards of asbestos-containing materials. Oily material was released from onsite pits during floods in 1982 and 1983 and covered approximately 150 to 200 acres of Ouachita River bottoms; however, no records of environmental damage or cleanup actions associated with these spills have been located. Final Superfund removal operations at MacMillan were completed in 1997, and included pumping, treating, and discharging wastes from waste pits and on-site bioremediation of approximately 13,000 cubic yards of contaminated soils.

In 2009, USEPA conducted an Emergency Removal Action at NCI in response to ADEQ's concerns about the unsafe condition of tanks and piping systems left by NCI containing anhydrous hydrogen fluoride (AHF) and AHF mixtures, including hydrofluoric acid. The Norphlet Public School, located approximately 500 ft from the site, was temporarily closed due to EPA's determination of an Imminent and Substantial Endangerment posed by the NCI facility.

EPA removal actions occurred at both the McMillan Ring- Free Oil Refinery and Norphlet Chemical. Total removal costs to date are in excess of 8 million dollars. In April 2010, the site was placed on the Arkansas Remedial Action Trust Fund Act (RATFA) Hazardous Substances Site Priority List (SPL), which identifies hazardous substance sites that are eligible for state-funded investigations and remedial actions. Estimated clean-up costs range from 4 to 15 million dependent on remedy selected. In November 2011 the Arkansas Department of Environmental Quality (ADEQ) requested EPA evaluate this site as a potential NPL caliber site.

Wastes and Volume

Principal Contaminants:

- PAH's
- Hexavalent Chromium
- TPH
- Mercury

Volume:

- The exact volume of on-site wastes is unknown. There were 7 buried/backfilled impoundments and 5 above ground storage tanks present at the time of the site reassessment. In addition there may be as much as a foot of refinery waste has been observed during sampling by ADEQ and EPA.

Key Documents

HRS Documentation Record:	Disk provided to the RPM. Currently being in filed in SDMS. Can be downloaded at Final revisions being made for March 15, 2012 proposal
Site Reassessment Trip Report:	Disk provided to the RPM. Currently being in filed in SDMS.
ADEQ Comprehensive Site Assessment:	

Contacts

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